

Department of Civil Engineering
II B.Tech II SEM (B), SOM-II, 2015-16
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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Cumulative periods
1,2	21-12-15	Introduction of SOM and recollecting some important topic from 1st sem	I	C.R	2
7	22-11-15	Introduction thin cylinders and derivation of hoop stress and longitudinal stress	I	C.R	3
1,2	28-12-15	Problems on the hoop and longitudinal stress	I	C.R	5
7	29-12-15	Formulas of stress and volumetric strains	I	C.R	6
7	01-01-16	Problems on the volumetric strains	I	C.R	7
1,2	04-01-16	Discussion about thin spherical shells	I	C.R	9
7	05-01-16	Introduction of thick cylinders	II	C.R	10
6	08-01-16	Derivation of lame's theory and formulas	II	C.R	11
1,2	11-01-16	Discussion about distribution of hoop and radial stress	II	C.R	13
7	12-01-16	About radial stresses and tangential stresses	II	C.R	14
1,2	18-01-16	Solving the problems	II	C.R	16
7	19-01-16	Solving the problems	II	C.R	17
1	22-01-16	Design of thick cylinders	II	C.R	18
1	25-01-16	Problems on thick cylinders	II	C.R	20
1	29-01-16	Compound cylinders with examples	II	C.R	21
2	08-02-16	Solving the problems	II	C.R	23
1	09-02-16	Different of radii for shrinkage	II	C.R	24
1	12-02-16	Solving the problems	II	C.R	25
1,2	15-02-16	Thick spherical shells	II	C.R	27
7	16-02-16	Solving the problems	II	C.R	28
1,2	22-02-16	Introduction of principal stresses and strains	III	C.R	30
7	23-02-16	Axial loading on an inclined section	III	C.R	31
1,2	26-02-16	Solving the problems	III	C.R	32
7	29-02-16	Compound stresses and problems	III	C.R	34
1	01-03-16	Normal and tangential stresses	III	C.R	35

7	04-03-16	Solving the problems	III	C.R	36
1,2	07-03-16	Two perpendicular normal stresses accompanied by a state of simple stresses	III	C.R	38
7	08-03-16	Problems and mohr's circle theorem	III	C.R	39
1	11-03-16	Solving the problems	III	C.R	40
1,2	14-03-16	Principal stress and strains	III	C.R	42
7	15-03-16	Principal stress and strains	III	C.R	43
7	18-03-16	Analytical and graphical solutions	III	C.R	44
1,2	21-03-16	Introduction of torsion of circular shafts, Derivation of torsion and assumptions	IV	C.R	46
7	22-03-16	Derivation of torsion equation – torsional moment	IV	C.R	47
1,2	28-03-16	Polar section modulus -power transmitted by shafts	IV	C.R	49
7	29-03-16	Combined bending, torsion and end thrust	IV	C.R	50
7	01-04-16	Design of shafts	IV	C.R	51
1,2	04-04-16	Solving the problems	IV	C.R	53
7	05-04-16	Solving the problems	IV	C.R	54
7	08-04-16	Introduction of columns and struts	V	C.R	55
1,2	11-04-16	Types of columns, axially loaded compression members	V	C.R	57
7	12-04-16	Solving the problems	V	C.R	58
7	15-04-16	Crushing load -eular's theorem for long columns	V	C.R	59
1,2	18-04-16	Derivation of eular's critical load formula	V	C.R	61
7	19-04-16	Equivalent length of columns	V	C.R	62
7	22-04-16	Solving the problems and slenderness ratio	V	C.R	63
1,2	25-04-16	Eular's critical stress limitation of eular's theory	V	C.R	65
7	26-04-16	Rankins – Jordan formula for long columns subjected to eccentric loads	V	C.R	66
7	29-04-16	Solving the problems	V	C.R	67

NOTE: C.R- Class Room Teaching (Black board, PPT)


Signature